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UTILITY PATENT APPLICATION TRANSMITTAL		<i>Title of Invention</i>	System and Method for Eliminating an Unnecessary Dispatch of a Service Technician
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APPLICATION ELEMENTS		ACCOMPANYING APPLICATION PARTS
1. <input type="checkbox"/> Fee Transmittal Form <i>(Submit an original, and a duplicate for fee processing)</i>	2. <input checked="" type="checkbox"/> Specification, Claims, and Abstract	Total Pages 18
3. <input checked="" type="checkbox"/> Drawings		Total Sheets 2
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a. <input type="checkbox"/> Newly executed (original or copy)		
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[Note Box 5 Below]		
(i) <input type="checkbox"/> DELETION OF INVENTOR(S)		
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).		
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**SYSTEM AND METHOD FOR ELIMINATING AN UNNECESSARY
DISPATCH OF A SERVICE TECHNICIAN**

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TECHNICAL FIELD

This invention relates in general to dispatching a service technician, and more particularly to monitoring service orders to eliminate an unnecessary dispatch of a service technician.

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BACKGROUND OF THE INVENTION

A service technician is often used to support the installation or repair of telephone service. Due to the cost of dispatching a service technician, it is preferable that a service technician only be dispatched when necessary and that multiple dispatches to the same location be avoided if possible. Typically, the dispatch of a service technician is initiated by a service request from a number of different sources, such as an ordering system used by an incumbent local exchange carrier and an ordering system used by a competitive local exchange carrier. Although it is preferable to avoid an unnecessary dispatch, the different sources typically do not attempt to prevent unnecessary dispatches because the performance of a particular system is not affected by an unnecessary dispatch. For example, the performance of an ordering system can be measured by how quickly a service order is generated. If so, then an ordering system

generates a service order as quickly as possible, without trying to determine whether the service order will result in an unnecessary dispatch.

It is a common occurrence for an ordering system to receive a request for installation of service from one customer and a request for discontinuation of service at the same location from another customer if the first customer is moving to the location and the second customer is moving away from the location. If the ordering system receives a request from the first customer to install new service at the location, then the ordering system issues a service request that requests the installation of new service. The ordering system (or other systems involved in the installation of the new service) may not recognize that the second customer has requested discontinuation of service at the same location so that the facilities previously used by the second customer can be assigned to the first customer. If not, then different facilities may be assigned for use by the second customer and a service technician is dispatched to complete the installation. However, if the facilities previously used by the second customer can be assigned to the first customer, then the dispatch can be saved because the existing facilities are reused.

An unnecessary dispatch can also result when a customer requests the installation of service at a multifamily dwelling or office building. An address for such a building can include a building number, unit number, floor number or suite number, in addition to a street number. For example, the address for an apartment can include "Building A, Unit 102." The inconsistent use of building numbers and unit numbers in an address can result in an unnecessary dispatch because an address that uses one method of addressing is not recognized as referring to the same location as another address that uses a different method of addressing. Consider the situation where service was previously provided to an apartment using an address that includes "Building A, Unit 102." A subsequent request for installation of service is made for the same apartment, but the customer provides an address that includes "A-102," rather than "Building A, Unit 102." If the address is not recognized as referring to the same location, then new facilities are assigned and a service technician is dispatched to complete the installation. However, if the address is recognized as referring to the same location, then the facilities can be reused and the dispatch can be saved. Thus, there is a need for a



system and method for monitoring the dispatch of service technicians to eliminate unnecessary dispatches.

The determination of an unnecessary dispatch should be made quickly enough so that it does not impair the response time for the dispatch of a service technician. If the time required to determine an unnecessary dispatch is too long, then the response time will suffer and customers cannot be timely served. Thus, the system and method for monitoring the dispatch of service technicians to eliminate unnecessary dispatches should not delay the dispatch of a service technician if the dispatch is necessary.

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SUMMARY OF THE INVENTION

The present invention meets the needs described above by providing a system and method for eliminating the unnecessary dispatch of a service technician. The present invention can be used in connection with the existing processes and systems that are used to generate service orders and manage the dispatch of service technicians without delaying the dispatch of a service technician when necessary.

In one aspect of the invention, a system, such as the trap service order system, is provided for monitoring service orders to eliminate unnecessary dispatches. Service orders are initiated by service requests that are generated by a variety of different sources, such as different local exchange carriers. The service requests are received by a service order control system which reviews the requests and generates service orders for the received service requests.

Once a service order is generated, the service order is sent to a loop facility assignment control system. The loop facility assignment control system assigns any facilities required by the service order. The service order control system then transmits the service order, including the facilities information, to the integrated service process (ISP) in the work management center. The ISP determines whether a service order requires the dispatch of a service technician. If so, then the ISP communicates with the MAPPER system and the MAPPER system generates a dispatch order. The dispatch order is assigned a number or other type of identifier for tracking purposes and is placed in a queue for execution.

The trap service order system monitors the service orders output from the service order control system to the ISP by receiving a

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duplicate drop of the service orders. The trap service order system determines whether a service order indicates that a dispatch is required. If the service order indicates that a dispatch is required, then the trap service order system further examines the service order to determine whether an unnecessary dispatch can be avoided. If the trap service order system determines that an unnecessary dispatch can be avoided, then the trap service order system communicates with the service order control system and the service order is corrected. The MAPPER system recognizes that the service order has been corrected and cancels the existing dispatch order to eliminate the unnecessary dispatch.

In another aspect of the invention, a method for eliminating an unnecessary dispatch is provided. The service orders generated by the service order control system are monitored to identify service orders that require a dispatch. If a service order is identified as requiring a dispatch, then the service order is selected for further analysis. The service order is initially analyzed to determine whether the service order meets a set of predefined criteria. The set of predefined criteria is selected to identify service orders that are likely to cause an unnecessary dispatch. If the service order meets the set of predefined criteria, then the service order is further analyzed to determine whether the dispatch associated with the service order is unnecessary and should be canceled. Once the dispatch is determined to be unnecessary, then the service order is corrected to eliminate the unnecessary dispatch.

In another aspect of the invention, a determination is made as to whether the dispatch associated with the service order should be placed on hold. The dispatch is placed on hold if the dispatch is scheduled to occur within a predefined time period, typically within the next 24 hours. If the determination is that the dispatch should be placed on hold, then the dispatch is put on hold so that the dispatch will not occur as scheduled.

The set of predefined criteria used to identify service orders that are likely to result in an unnecessary dispatch can be determined by an analysis of past dispatches to identify the characteristics of a service order that indicate a likelihood of an unnecessary dispatch. The fields or sections of the service order that are examined to determine whether the service order meets the set of predefined criteria typically include the assignment section, the listing section, the service and equipment section and the identification section. The set of predefined criteria are flexible and can be

changed to accommodate changes in the systems that generate service requests, generate service orders and assign facilities.

These and other aspects, features and advantages of the present invention may be more clearly understood and appreciated from a review of the following detailed description of the disclosed embodiments and by reference to the appended drawings and claims.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a block diagram illustrating an exemplary operating environment for an embodiment of the present invention.

Figure 2 is a flow diagram illustrating a method for eliminating an unnecessary dispatch, in accordance with an embodiment of the present information.

DETAILED DESCRIPTION OF THE INVENTION

The present invention is directed to a system and method for eliminating the unnecessary dispatch of a service technician. The present invention can be used in connection with the existing processes and systems that are used to generate service orders and manage the dispatch of service technicians. Briefly described, the present invention monitors service orders generated by the service order control system to identify service orders that require a dispatch. If a service order is identified as requiring a dispatch, then the service order is selected for further analysis. The service order is initially analyzed to determine whether the service order meets a set of predefined criteria. The set of predefined criteria is selected to identify service orders that are likely to cause an unnecessary dispatch. The set of predefined criteria can be determined by an analysis of past dispatches to identify the characteristics of a service order that indicate a likelihood of an unnecessary dispatch. The set of predefined criteria are flexible and can be changed to accommodate changes in the systems and processes that generate service orders. If the service order meets the set of predefined criteria, then the service order is further analyzed to determine whether the dispatch associated with the service order is unnecessary and should be canceled. If the dispatch is determined to be unnecessary, then the service order is corrected to eliminate the unnecessary dispatch.

System for Monitoring Service Orders

Figure 1 illustrates an exemplary system for monitoring service orders to eliminate unnecessary dispatches. Service requests 111 are generated by a number of different sources 102a, 102b . . . 102n. In an environment where there are a number of competitive local exchange carriers, the sources can correspond to different local exchange carriers. For example, source 102a can correspond to an incumbent local exchange carrier (ILEC) and source 102b can correspond to a competitive local exchange carrier (CLEC). In the exemplary system shown in Figure 1, the requests from the ILEC are sent to a regional negotiating system (RNS) 103 prior to being sent to the service order control system 104 and the requests from the CLEC are sent to a local exchange negotiation system (LENS) 105 prior to being sent to the service order control system 104. In addition, a request from a CLEC may be validated by a regional street address guide (RSAG) database (not shown) prior to being sent to the service order control system.

The service order control system (SOCS) 104 reviews a service request and generates a service order for the received service request. In one embodiment, the service order includes a number of sections including a listing section, a billing section, a service and equipment (S&E) section, a remarks section, an assignment section, a status section, as well as a header and an identification (ID) section. The service order control system includes a database (not shown) that maintains information about the generated service orders.

Once a service order is generated, the service order is sent to the loop facility assignment control system (LFACS) 106 via input 112. The loop facility assignment control system assigns facilities for service orders that require facilities. The assignment of facilities is supported by a database in the loop facility assignment control system (not shown). For example, if a service request is directed to the installation of new service, the loop facility assignment control system references the database and assigns a cable pair for the installation. The assigned facilities are communicated to the service order control system via input 113 and the database in the service order control system is updated with the facilities information.

The service order control system then transmits the service order, including the facilities information to the integrated service process (ISP) in the work management center 108 via input 114. The ISP determines whether a service order requires the dispatch of a service technician. If so, then the ISP communicates with the MAPPER system and the MAPPER system generates a dispatch order. The dispatch order is assigned a number or other type of identifier for tracking purposes and is placed in a queue for execution.

The trap service order system 110 monitors the service orders output from the service order control system 104 to the ISP by receiving a duplicate drop of the service orders. The trap service order system determines whether a service order indicates that a dispatch is required. If the service order indicates that a dispatch is required, then the trap service order system further examines the service order to determine whether an unnecessary dispatch can be avoided.

If the trap service order system determines that an unnecessary dispatch can be avoided, then the trap service order system communicates with the service order control system 104 and possibly the loop facility assignment control system 106 and the ISP. The trap service order system communicates with the service order control system via input 118 to update or correct the database in the service order control system, communicates with the loop facility assignment control system via input 117 to update or correct the database in the loop facility assignment control system, and communicates with the MAPPER system via input 116 to place a dispatch order on hold.

If the database in the service order control system is updated or corrected, then the service order control system corrects the service order. The corrected service order is sent to the loop facility assignment control system and the loop facility assignment control system determines whether the corrected service order requires the assignment of facilities. If so, then the facilities are assigned and the database in the service order control system is updated with the facilities information. If the trap service order system updates the database in the loop facility assignment control system, then the loop facility assignment control system corrects or updates the assignment of facilities for the corrected service order. The corrected service order is also sent to the MAPPER system. The MAPPER system

recognizes that the corrected service order corresponds to an existing dispatch order and cancels the existing dispatch order.

A dispatch order is placed on hold if the trap service order system determines that the dispatch might occur before a corrected service order can be generated and processed through the systems to cancel the existing dispatch order. By placing the dispatch order on hold, the dispatch will not occur as scheduled. Once the corrected service order is received by the MAPPER system, the existing dispatch order is canceled.

To determine whether a dispatch is unnecessary and to initiate a corrected service order, the trap service order system can use a number of different methods that use some, little or no human intervention. In one embodiment, the review of the service orders, the updates of the databases in the service order control system and the loop facility assignment control system, and the communication with the MAPPER system are performed automatically by the trap service order system. In another embodiment, a user can review service orders that have been identified as being likely to cause an unnecessary dispatch on a display device to determine whether a dispatch is unnecessary. The user can select certain types of service orders to review, such as service orders that are related to other service orders or service orders that include an override code. The selection of the types of service orders to review is performed by querying a database of service orders that have been identified as requiring a dispatch. In yet another embodiment, reports can be periodically generated to list service orders that are likely to cause an unnecessary dispatch. The reports are based upon the set of predefined criteria. The reports can be reviewed by a user to determine whether a service order requires an unnecessary dispatch. Once a service order has been identified as requiring an unnecessary dispatch, the communication with the service order control system and possibly the loop facility assignment control system and the MAPPER system can be performed automatically by the trap service order system or can be performed manually by a user of the trap service order system.

Method for Eliminating an Unnecessary Dispatch

In Figure 2, an exemplary method for eliminating an unnecessary dispatch is illustrated. The method is typically performed by a system, such as the trap service order system illustrated by Figure 1. The method begins at step 202 where the service orders generated by the

service order control system are monitored. In step 204 a determination is made as to whether a service order requires a dispatch. In one embodiment, the determination as to whether a service order requires a dispatch is made by examining the routing code in the header section of the service order and the work function code in the assignment section of the service order. This determination is the same determination that is made by the ISP to determine whether a dispatch is required. If the determination in step 204 is that the service order does not require a dispatch, then the No branch is followed back to step 202.

However, if the determination in step 204 is that the service order requires a dispatch, then the Yes branch is followed to step 206 and the service order is selected for further analysis. In step 208, a determination is made as to whether the service order meets a set of predefined criteria. The set of predefined criteria is selected to identify service orders that are likely to cause an unnecessary dispatch. To determine whether the service order meets the set of predefined criteria, selected sections of the service order are examined. For example, the ID section of the service order is examined to determine whether the service order includes an override code. An override code can be inserted by a source to force a dispatch. However, the override code is often misused by a source so a service order that includes the override code is likely to require an unnecessary dispatch. If the service order includes an override code, then the service order is identified as one that meets the set of predefined criteria.

The set of predefined criteria also include determining whether the service order is a reinstall/reconnect order for a former customer. One example of a reinstall/reconnect order is a port back order. A port back order occurs when a customer of a local exchange carrier switches to a competitive local exchange carrier and then returns to the original local exchange carrier. If the former customer is assigned facilities that are different from the facilities that were previously assigned, then an unnecessary dispatch is likely to occur. To determine whether the service order is a port back order, the former customer telephone number (FCTN) field of the listing section of the order is examined. If the FCTN field indicates that the service order is a port back order, then the service order is identified as one that meets the set of predefined criteria. As will be apparent to those skilled in the art, the set of predefined criteria can include

other values and/or other selected fields and sections of the service order that indicate a likelihood of an unnecessary dispatch. For example, the set of predefined criteria can include examining the assignment section to determine the assigned facilities, comparing the service order to other service orders to identify duplicate service orders or any number of other criteria.

If the determination in step 208 is that the service order does not meet the set of predefined criteria, then the No branch is followed back to step 202. Otherwise, the Yes branch is followed to step 210. In step 210, the service order is further analyzed to determine whether the dispatch associated with the service order is unnecessary and should be canceled. For example, if the service order includes an override code, then the service order is reviewed to determine whether a dispatch is necessary. If the determination is that the dispatch is not necessary, then the dispatch is canceled. If the service order is a port back order for a former customer, then the service order is reviewed to determine whether the service order assigns facilities that are different from the facilities that were previously assigned. If so, the service order is identified as one requiring an unnecessary dispatch because if the facilities were reused the dispatch could be saved.

If the determination in step 210 is that the dispatch associated with the service order is necessary, then the method returns to step 202. However, if the service order is identified as requiring an unnecessary dispatch, then the Yes branch is followed to step 212. In step 212, a determination is made as to whether the dispatch associated with the service order should be placed on hold. The dispatch is placed on hold if the dispatch is scheduled to occur within a predefined time period, typically within the next 24 hours. If the determination is that the dispatch should be placed on hold, then the Yes branch is followed to step 220. In step 220, the dispatch is put on hold so that the dispatch will not occur as scheduled. As described above in connection with Figure 1, the dispatch is typically put on hold by communicating with the MAPPER system in the work management center.

Although Figure 2 illustrates that the determination as to whether the dispatch order should be placed on hold occurs after the service order is identified as requiring an unnecessary dispatch, the determination can also be made at other times. For example, the

determination as to whether the dispatch order should be placed on hold could be made after the determination is made in step 204 that the service order requires a dispatch. This would place the dispatch order on hold while the service order is examined to determine whether the dispatch order should be canceled. Alternatively, the determination as to whether the dispatch order should be placed on hold could be made after the determination is made in step 208 that the service order meets a set of predefined criteria.

Once the dispatch order has been put on hold in step 220, or if the determination in step 212 is that the dispatch order should not be put on hold, then the method proceeds to step 214. In step 214, the database in the service order control system is updated. By updating the database in the service order control system, the service order is corrected and the unnecessary dispatch is eliminated. Once the database in the service order control system is updated, then the method proceeds to step 216. In step 216 a determination is made as to whether the database in the loop facility assignment control system should be updated. The database in the loop facility assignment control system is updated if the facilities assignment needs to be modified to eliminate the dispatch. If the determination in step 216 is that the database in the loop facility assignment control system should be updated, then the method proceeds to step 218 and the database is updated. However, if the determination in step 216 is that the database does not need to be updated, then the method proceeds back to step 202.

25 Determining that a Service Order is Likely to Cause an Unnecessary Dispatch

The set of predefined criteria used to identify service orders in step 208 of Figure 2 is typically determined by an analysis of past dispatches to identify the characteristics of a service order that indicate a likelihood of an unnecessary dispatch. There are generally two types of service orders, new installs and reinstalls/reconnects. The type of service order can be determined by examining the FCTN field of the listing section of the service order. The set of predefined criteria consider the type of service order, as well as the information included in selected fields or sections of the service order. The fields or sections of the service order that are examined to determine whether the service order meets the set of predefined criteria typically include the assignment section, the listing

section, the S&E section and the ID section. The assignment section is examined to determine what facilities have been assigned and to determine whether there are any related orders. The listing section is examined to determine whether the service order is associated with a former customer.

5 The S&E section is examined to determine whether the service order requests an additional line and to determine whether the order is a port back order.

In one embodiment, the set of predefined criteria include determining whether the order was initiated by the incumbent local exchange carrier or a competitive local exchange carrier. As illustrated by Figure 1, a service request can be initiated by different sources that use different preprocessing systems. In the exemplary embodiment illustrated by Figure 1, a service request from the incumbent local exchange carrier is processed by the RNS 103 system, whereas a service request from a competitive local exchange carrier is processed by the LEN5 105 system and possibly the RSAG system (not shown). The different preprocessing can affect the definition of the set of predefined criteria.

In addition, the training received by employees of the incumbent local exchange carrier and a competitive local exchange carrier differ and can affect the definition of the set of predefined criteria. For example, if employees of a particular competitive local exchange carrier are trained to complete service requests in a manner that increases the likelihood of an unnecessary dispatch, then the set of predefined criteria include an examination of the service order to determine whether the service order was generated by the competitive local exchange carrier, as well as an examination of those fields or sections of the service order that can cause an unnecessary dispatch due to the manner of completion. Because the source of the service request can affect the set of predefined criteria, different fields or sections of the service order can be examined based upon the source.

The set of predefined criteria is flexible and can be modified as necessary. For example, if the preprocessing of a service request changes, then the fields or sections of the service order that need to be examined to determine whether an unnecessary dispatch can also change. The set of predefined criteria can be changed to specify different or additional fields and sections of the service order to accommodate the changes in the preprocessing.

If the set of predefined criteria is determined by an analysis of past dispatches, then the set of predefined criteria can also be used to identify problems with the source systems, the service order control system or the loop facility assignment control system. Even though a problem is identified, determining and implementing a solution to the problem can take time. The use of the set of predefined criteria to analyze service orders insures that an unnecessary dispatch does not occur while a solution to the problem is implemented at another system.

Additional alternative embodiments will be apparent to those skilled in the art to which the present invention pertains without departing from its spirit and scope. For example, additional or alternative criteria can be used to determine that a service order is likely to cause an unnecessary dispatch. Accordingly, the scope of the present invention is described by the appended claims and is supported by the foregoing description.

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CLAIMS

What is claimed is:

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1. A method for eliminating an unnecessary dispatch of a service technician when a service order indicates a dispatch is required, comprising:

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determining whether the service order meets a set of predefined criteria;

if the service order meets the set of predefined criteria, then determining whether the dispatch is unnecessary;

if the dispatch is unnecessary, then canceling a dispatch associated with the service order.

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2. The method of Claim 1, wherein determining whether the service order meets a set of predefined criteria comprises:

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determining whether the service order was initiated by a competitive local exchange carrier.

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3. The method of Claim 1, wherein determining whether the service order meets a set of predefined criteria comprises:

determining whether the service order includes an override code requiring dispatch of a service technician.

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4. The method of Claim 1, wherein determining whether the service order meets a set of predefined criteria comprises:

determining whether the service order is related to a second service order.

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5. The method of Claim 1, wherein determining whether the service order meets a set of predefined criteria comprises:

determining whether the service order includes an assignment of facilities.

6. The method of Claim 5, wherein determining whether the service order indicates that a dispatch is unnecessary comprises:

determining whether the assignment of facilities uses the same facilities that were previously assigned to a location associated with the service order.

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7. The method of Claim 1, wherein canceling the dispatch comprises:

correcting the service order so the dispatch associated with the service order is canceled.

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8. The method of Claim 1, further comprising the steps of: determining whether the dispatch is scheduled to occur within a predetermined time period; and

if the dispatch is scheduled to occur within the predetermined time period, then placing the dispatch on hold prior to determining whether the dispatch is unnecessary.

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9. The method of Claim 1, wherein determining whether the dispatch is unnecessary comprises:

in response to receiving a query based upon selected ones of the predefined criteria, searching a database of service orders that indicate a dispatch is required to locate service orders that meet the selected predefined criteria; and

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providing the service orders that meet the selected predefined criteria.

10. The method of Claim 1, wherein determining whether the dispatch is unnecessary comprises:

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periodically generating a report based upon selected ones of the predefined criteria that includes all service orders that meet the selected predefined criteria.

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11. A system for eliminating unnecessary dispatches, comprising:

5 a service order control system for receiving the service requests from a source and for generating a service order;

a work management center for receiving the service order from the service order control system and for determining whether the service order requires a dispatch; and

10 a trap service order system for monitoring the service order generated by the service order control system and for determining whether the service order requires a dispatch, and if so, whether the dispatch is unnecessary.

15 12. The system of Claim 11, wherein if the trap service order system determines that the dispatch is unnecessary and that the dispatch is scheduled to occur within a predetermined period of time, then the trap service order system communicates with the work management center to place the dispatch on hold.

20 13. The system of Claim 11, further comprising a loop facility assignment control system for receiving the service order and for assigning facilities for the service order, wherein if the trap service order system determines that the dispatch is unnecessary, then the trap service order system communicates with the loop facility assignment control system to update a database in the loop facility assignment control system.

25 14. The system of Claim 11, wherein if the trap service order system determines that the dispatch should be cancelled, then the trap service order system communicates with the service order control system to update a database in the service order control system.

30 15. The system of Claim 14, wherein the service order control system generates a corrected service order which cancels the dispatch, in response to the database update.

16. The system of Claim 11, wherein the trap service order system is operative to identify all service orders that require a dispatch and that meet a set of predefined criteria.

5 17. A method for eliminating a dispatch of a service technician specified by a service order which is unnecessary, comprising:

10 determining whether the service order meets a set of predefined criteria that indicate a likelihood of an unnecessary dispatch by examining selected sections of the service order;

15 if the service order meets the set of predefined criteria, then determining whether the dispatch is unnecessary; and

20 if the dispatch is unnecessary, then eliminating the dispatch by correcting the service order and canceling a dispatch order for the dispatch.

15 18. The method of Claim 17, wherein the set of predefined criteria is selected based upon an analysis of past dispatches.

20 19. The method of Claim 17, wherein the set of predefined criteria include determining whether the service order is a new install or a reinstall/reconnect.

25 20. The method of Claim 17, wherein initiating a corrected service order comprises updating a database associated with a service order control system.

ABSTRACT OF THE INVENTION

SYSTEM AND METHOD FOR ELIMINATING AN UNNECESSARY
5 DISPATCH OF A SERVICE TECHNICIAN

10 Eliminating an unnecessary dispatch of a service technician. The present invention is directed to a system and method for eliminating the unnecessary dispatch of a service technician. The service orders generated by the service order control system are monitored to identify service orders that require a dispatch. If a service order is identified as requiring a dispatch, then the service order is selected for further analysis.

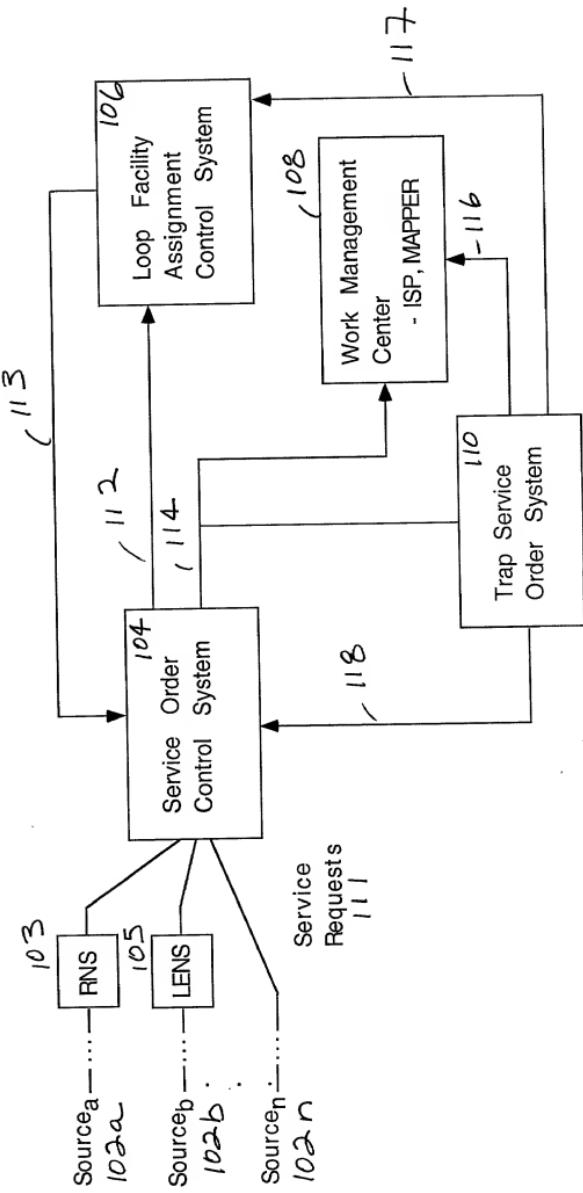
15 The service order is initially analyzed to determine whether the service order meets a set of predefined criteria. The set of predefined criteria is selected to identify service orders that are likely to cause an unnecessary dispatch. The set of predefined criteria can be determined by an analysis of past dispatches to identify the characteristics of a service order that indicate a likelihood of an unnecessary dispatch. The set of predefined criteria are flexible and can be changed to accommodate changes in the systems and processes that generate service orders. If the service order meets the set of predefined criteria, then the service order is further analyzed to determine whether the dispatch associated with the service order is unnecessary and should be canceled. Once the dispatch is determined to be unnecessary,

20 then the service order is corrected and the dispatch is canceled.

J&A Docket No. 19260-1800

BS Docket No. 98041

Figure 1



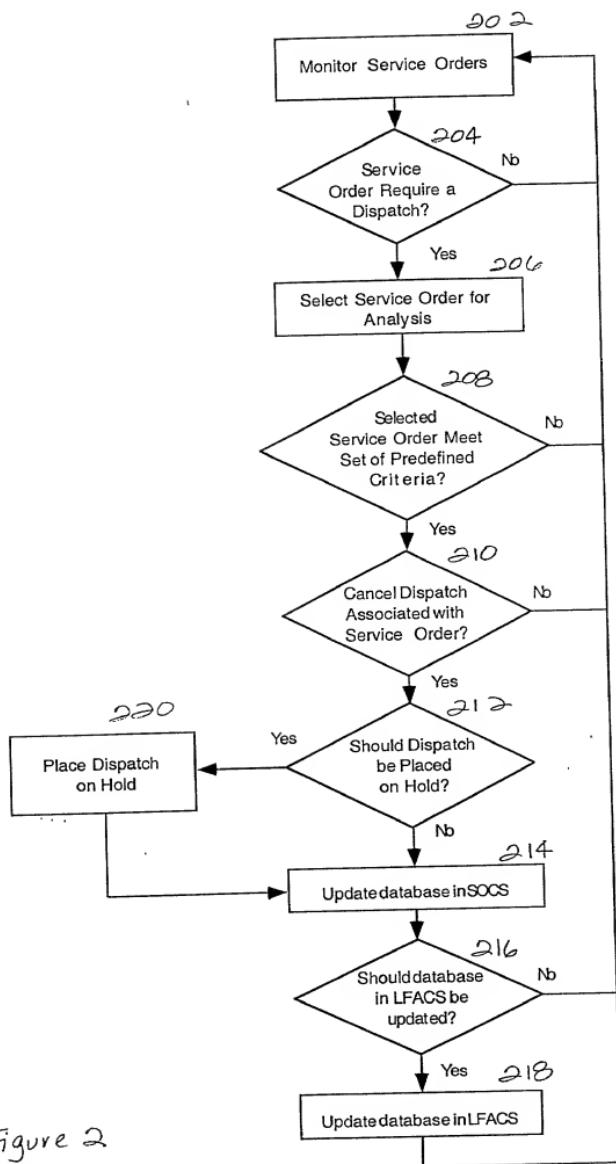


Figure 2